

Effective Date:			Enteral Nutrition Clinical Guideline SUMMARY*					
	2/27/2017, Revised 10/19/2017							
	*R	efer to <mark>En</mark>	teral Nutrition Clinical Guideli	<mark>ne</mark> for full guideline and reference	es			
			Initiation of Enter					
All infants should have e	enteral nutriti	ion initiat	ed as soon as possible (goal within 6	-12 hours) after admission unless	absolute contraindica	ations are presen		
Waiting for daily rounds	s to make rou	tine feedi	0 10	nd compromise nutritional status				
Absolute contraindications		 Hemodynamic instability (Dopamine >5 mcg/kg/min and/or escalating support) 						
i.e. NPO except colostrum for		Gastrointestinal pathology (e.g. NEC, mechanical or functional bowel obstruction)						
mouth care which CAN be		Respiratory failure and/or severe apnea with impending need for intubation						
provided even if absolute		• Infants ≥35 weeks' gestation with respiratory rate >80 and/or significant increased work of breathing						
contraindications are present		that precludes oral feeding, with expectation that respiratory status will resolve quickly (e.g. TTN)						
Relative contraindications		Minimal enteral nutrition ("gut priming," "non-nutritive feedings," "trophic feedings," etc) @ 10 mL/kg/day						
i.e. eligible for non-nutritive		Presence of Umbilical Arterial Catheter						
feedings at medical team		Moderate to severe/worsening RDS with likely need for intubation; re-assess clinical status frequently						
discretion in addition to		During indomethacin therapy for IVH prophylaxis <u>IVH Prevention Guideline</u>						
colostrum for mouth care		Hemodynamically significant PDA undergoing treatment with indomethacin <u>PDA Guideline</u>						
colostrum is preferred but do not		Hypoxic-ischemic encephalopathy undergoing therapeutic hypothermia <u>HIE Guideline</u>						
delay if not available		 Dopamine ≤5 mcg/kg/min at stable dose 						
			Type of Enteral I	eeding:				
What to feed:		Colostrum (colostrum is preferred for minimal enteral nutrition); Maternal milk; Pasteurized donor human						
(in order of preference)		milk (PDHM), with consent; Infant formula appropriate for birth weight and/or gestational age:						
		Birth weight and/or Gestational Age Type of Infant Formula						
(PDHM eligibility/duration:		≤1800 grams		Preterm, High Protein (Enfamil Premature High Protein)				
PDHM Guideline WNH H.4)		1801-2200 grams or <35 weeks		Preterm (Enfamil Premature)				
		2201-2500 grams and/or 35-37 weeks		Post-discharge nutrient enriched (Enfamil EnfaCare or Similac NeoSure)				
		>2500	>2500 grams and/or >37 weeks Standard term (Enfamil Newborn or Similac Advance)					
		Cuidalia	es for initiation and advanceme	ent of enteral feeding by birth w	aight			
	Birth weight		Initial volume*	Volume increases	Goal			
			(mL/kg/day)	(mL/kg/day)	Volume			
			*given for 12-24 hours prior to advancement	every 12 hours	(mL/kg/day)			
≤1000 grams			10	10	· · · · · · · · · · · · · · · · · · ·			
	1001-1500 grams		20	15	1 1			
1501-1800 gra				15-20	150-160			
1801-2500+ gran			30-40	20	-			
	<u> </u>			Calaria Danaita at Inter t	1-			
				Caloric Density of Infant Formu- will be considered in all infants o		(1 *(2 2		

*This helps further minimize deficits while weaning off PN and may improve tolerance due to a smaller initial exposure to HMF with gradual increase as feeding volumes advance

- Infants fed predominantly PDHM should be considered for additional caloric, protein and sodium supplementation once tolerating goal volume. -Recommended standard feedings for these infants is Fortified Human Milk 26 kcal/oz High Protein Step 1
- Electrolytes should be checked within 5-7 days of coming off electrolyte containing IV fluids (consider earlier for predominately PDHM fed)
- Electrolyte supplementation should be individualized based on laboratory findings; suggested initial dose of 2 mEq/kg/day NaCl vs. Bicitra.

Growth Monitoring and Interventions

(once at goal volume feeds 150-160 mL/kg/day) Growth monitoring with neonatal dietitian: weight (g/kg/day or g/day over 7 days; length (cm/week); head circumference (cm/week) Optimal growth: >18 g/kg/day x7 days and >0.8 cm length/week; Growth faltering: <15-18 g/kg/day x7-14 days and <0.8 cm length/week Growth faltering interventions, in order of preference:

- Increase volume of enteral feedings by 10 mL/kg/day
- Increase protein provision by 0.3 0.5 g/kg/day
- After first increase in protein, increase kcal and protein calories together

Assessment and management of feeding intolerance Routine assessment of gastric residuals is not recommended unless other clinical concerns are present. Relevant guidelines: Signs of potential feeding intolerance or more serious pathology include the following and warrant MD or LIP provider Venting OG tubes <u>CPAP</u> physical exam +/- x-ray and laboratory studies: guideline NICU O.1 Sudden or substantial (>2 cm) increase in abdominal girth Skin care guidelines Bloody stools <u>NICU Skin Care</u> New onset emesis (particularly bilious emesis) <u>Diaper Dermatitis</u> Abdominal tenderness, erythema or other discoloration Large (>50% of feeding volume) gastric residual (especially bilious) in presence of other concerning signs If work-up reassuring, resume feeding and previous volume/advance intervals